

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for modeling video ~~teleconferencing~~ conferencing network reliability, the method comprising:

obtaining historical data for multiple video conferences;

storing said historical data in a call history table, said historical data ~~referenced to~~ including video ~~teleconferencing~~ conferencing equipment vendor or model identification information;

executing a modeling algorithm that produces a model representing the historical data, which includes executing a decision tree algorithm;

analyzing the model to identify characteristics associated with undesirable outcomes for the video conferences; and

configuring a video ~~teleconferencing~~ conferencing network to avoid at least one of the identified characteristics associated with undesirable outcomes; and

conducting a new video conference with the video conferencing network configured to avoid at least one of the identified characteristics associated with undesirable outcomes.

Claim 2 (Canceled).

Claim 3 (Currently Amended): The method of Claim [[2]] 1, wherein the operation of executing a decision tree algorithm comprises executing an ID3-based algorithm.

Claim 4 (Canceled).

Claim 5 (Currently Amended): The method of Claim [[4]] 1, further comprising:

- updating the historical data to create new historical data that includes values representing characteristics of the new video conference;
- executing the modeling algorithm to produce a new model representing the new historical data;
- analyzing the new model to produce a result; and
- reconfiguring the video ~~teleconferencing~~ conferencing network according to the result.

Claim 6 (Original): The method of Claim 1, further comprising:

- evaluating the model to determine whether the model provides a desired level of efficacy; and
- in response to determining that the model does not provide a desired level of efficacy, using a different modeling algorithm to produce a different model.

Claim 7 (Original): The method of Claim 1, wherein:

- the method further comprises building a training set from the historical data;
- the operation of executing the modeling algorithm comprises applying the modeling algorithm to the training set; and
- the operation of analyzing the model comprises:
- deriving a rule set from the model; and
- analyzing the rule set to identify the characteristics associated with undesirable outcomes for the video conferences.

Claim 8 (Original): The method of Claim 7, wherein:

the historical data includes attribute values for attributes of each video conference and an outcome value representing an outcome for each video conference; and
the operation of applying the modeling algorithm to the training set comprises:
using the outcome values as categorical attributes for the modeling algorithm; and
using the attribute values as non-categorical attributes for the modeling algorithm.

Claim 9 (Original): The method of Claim 7, wherein:

the operation of obtaining historical data for multiple video conferences comprises obtaining a first endpoint identifier, a first endpoint vendor, a second endpoint identifier, a second endpoint vendor, and an outcome value for the multiple video conferences;
the operation of building a training set comprises including the first endpoint identifier, the first endpoint vendor, the second endpoint identifier, the second endpoint vendor, and the outcome value for the multiple video conferences in the training set; and
the operation of executing the modeling algorithm comprises using the first endpoint identifier, the first endpoint vendor, the second endpoint identifier, the second endpoint vendor, and the outcome value for the multiple video conferences to produce the model.

Claim 10 (Original): The method of Claim 7, wherein:

the training set includes values representing a first set of attributes; and
the method further comprises:
evaluating the model to determine whether the model provides a desired level of efficacy;
in response to determining that the model does not provide a desired level of efficacy,
building a different training set that includes a different set of attributes; and

applying the modeling algorithm to the different training set to produce a different model.

Claim 11 (Currently Amended): A computer storage medium storing instructions, which when executed by a configured to cause a computing device, causes the computing device to perform functions to execute a method comprising:

obtaining historical data for multiple video conferences;

storing said historical data in a call history table, said historical data referenced to including vendor or model identification information; and

executing a modeling algorithm that produces a model representing the historical data, which includes executing a decision tree algorithm; such that the model can be analyzed to identify one or more opportunities for improving reliability of a video teleconferencing network

analyzing the model to identify characteristics associated with undesirable outcomes for the video conferences;

configuring a video conferencing network to avoid at least one of the identified characteristics associated with undesirable outcomes; and

conducting a new video conference with the video conferencing network configured to avoid at least one of the identified characteristics associated with undesirable outcomes.

Claim 12 (Currently Amended): The method computer storage medium of Claim 11, further comprising wherein the functions further comprise:

outputting results that reveal at least one of the opportunities for improving reliability of the video teleconferencing conferencing network, such that a user can reconfigure the

video ~~teleconferencing~~ conferencing network, based on the results, to improve reliability of the video ~~teleconferencing~~ conferencing network.

Claim 13 (Currently Amended): The ~~method~~ computer storage medium of Claim 11, further comprising wherein the functions further comprise:

analyzing the model to identify the one or more opportunities for improving reliability of the video ~~teleconferencing~~ conferencing network; and

automatically reconfiguring the video ~~teleconferencing~~ conferencing network, based on the identified opportunities, to improve reliability of the video ~~teleconferencing~~ conferencing network.

Claim 14 (Canceled).

Claim 15 (Currently Amended): The ~~method~~ computer storage medium of Claim 11, wherein:

the ~~operation of~~ executing the decision tree algorithm comprises executing an ID3-based algorithm.

Claim 16 (Currently Amended): The ~~method~~ computer storage medium of Claim 11, further comprising wherein the functions further comprise:

updating the historical data to create new historical data that includes values representing characteristics of a new video conference;

executing the modeling algorithm to produce a new model representing the new historical data;

analyzing the new model to produce a result; and

reconfiguring the video ~~teleconferencing~~ conferencing network according to the result to improve reliability of the video ~~teleconferencing~~ conferencing network.

Claim 17 (Currently Amended): The ~~method~~ computer storage medium of Claim 11, ~~further comprising~~ wherein the functions further comprise:

building a training set from the historical data;
executing the modeling algorithm by applying the modeling algorithm to the training set; and
deriving a rule set from the model, such that the one or more opportunities for improving reliability of a video ~~teleconferencing~~ conferencing network can be identified by ~~reference to~~ with the rule set.

Claim 18 (Currently Amended): The ~~method~~ computer storage medium of Claim 17, wherein:

the historical data includes attribute values for attributes of each video conference and an outcome value representing an outcome for each video conference;
the modeling algorithm uses the outcome values as categorical attributes; and
the modeling algorithm uses the attribute values as non-categorical attributes.

Claim 19 (Currently Amended): The ~~method~~ computer storage medium of Claim 17, ~~further comprising~~ wherein the functions further comprise:

obtaining a first endpoint identifier, a first endpoint vendor, a second endpoint identifier, a second endpoint vendor, and an outcome value for the multiple video conferences;

storing in the training set the first endpoint identifier, the first endpoint vendor, the second endpoint identifier, the second endpoint vendor, and the outcome value for the multiple video conferences; and

using, by the modeling algorithm, the first endpoint identifier, the first endpoint vendor, the second endpoint identifier, the second endpoint vendor, and the outcome value for the multiple video conferences to produce the model.

Claim 20 (Currently Amended): A data processing system for modeling video ~~teleconferencing conferencing~~ network reliability, the data processing system comprising:

one or more processing units; and

a computer storage medium storing instructions, which when executed by the one or more processing units, causes the one or more processing units to perform functions including configured to cause a computing device to execute a method comprising

obtaining historical data for multiple video conferences;

storing said historical data in a call history table, said historical data ~~referenced to including~~ vendor or model identification information; and

executing a modeling algorithm that produces a model representing the historical data, ~~which includes executing a decision tree algorithm; such that the model can be analyzed to identify one or more opportunities for improving reliability of a video teleconferencing network~~

analyzing the model to identify characteristics associated with undesirable outcomes for the video conferences;

configuring a video conferencing network to avoid at least one of the identified characteristics associated with undesirable outcomes; and

conducting a new video conference with the video conferencing network configured
to avoid at least one of the identified characteristics associated with undesirable outcomes.